

Title (en)

PARTIALLY SPRUNG DRIVE, IN PARTICULAR FOR ELECTRIC TRACTION VEHICLES

Title (de)

TEILABGEFEDERTER ANTRIEB, INSBESONDERE FÜR ELEKTRISCHE TRIEBFAHRZEUGE

Title (fr)

DISPOSITIF D'ENTRAÎNEMENT PARTIELLEMENT MONTE SUR RESSORTS, EN PARTICULIER POUR VEHICULES AUTOMOTEURS ELECTRIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: US5943959A] PCT No. PCT/EP96/00275 Sec. 371 Date Oct. 27, 1997 Sec. 102(e) Date Oct. 27, 1997 PCT Filed Jan. 24, 1996 PCT Pub. No. WO96/23687 PCT Pub. Date Aug. 8, 1996A partially spring-loaded drive, particularly for electrically-powered rail vehicles, having a gear which, including an encapsulating gear housing, is seated on the wheel axle, and a pinion that is seated in the gear housing. The coupled motor is fixedly secured to the truck, and the resilient, elastic fastening of the gear housing to the truck is effected by way of at least two elastic spring elements that are mounted nearly vertically and diametrically opposite the pinion shaft, and whose lines of influence extend through the center of the pinion shaft. To avoid the disadvantages associated with truck-side pendulum suspensions of the drive housing outside of the pinion shaft, and provide a solution to the fastening of the gear housing to the truck, with which a stabilizing effect can be achieved for protecting the bearings in addition to an economical minimization of deformation losses of the coupling, a defined radial prestressing of the gear housing (3) with respect to the wheel set (4/5) is established using the transverse elasticity of the spring elements (6). The radial prestressing can usefully be established above and below the gear housing (3) by way of an arrangement of rubber thrust springs having support surfaces.

IPC 1-7

B61C 9/50

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